

SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS TO
FACILITATE EFFICIENT TRANSMISSION AND PLAYBACK OF DIGITAL
INFORMATION

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ABSTRACT OF THE INVENTION

Systems, methods, and computer products that facilitate transmission of information
used for fast and responsive video and audio playback at non-standard, trick mode speeds.
An embodiment of the present invention uses low resolution, compressed, and
independent frames derived from the encoded digital video or audio information to
facilitate the operation of user-requested VTR-like speed change functions associated
with digital video and digital audio frames. The present invention greatly simplifies
locating specific frames in a video or audio presentation for purposes such as fast forward
and fast reverse scanning that is typically used in digital editing.

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